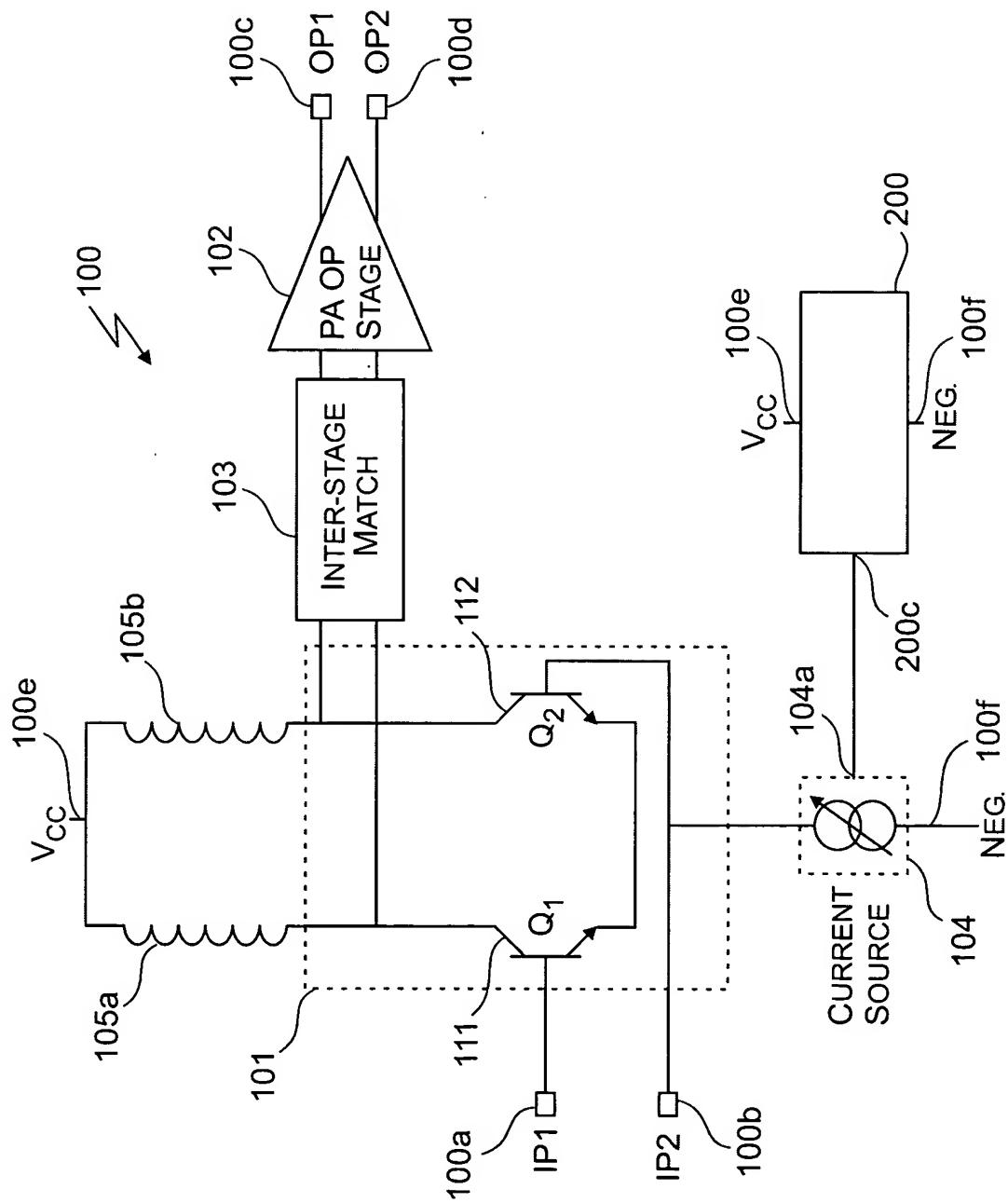


Fig. 1a



sensing of a supply voltage potential

determining whether the sensed supply voltage potential is one of higher than a first predetermined potential, in between the first predetermined potential and a second predetermined potential and below the second predetermined potential

amplifying the RF input signal with a first amplification stage having a first variable gain to form a first amplified signal, the first variable gain dependent upon the sensed supply voltage potential

amplifying the first amplified signal with a second amplification stage having a second gain to form the RF output signal

adjusting a bias current provided to the first amplification stage for varying the first variable gain in such a manner that at the first predetermined potential a lower bias current is provided to the first amplification stage than is provided to the first amplification stage at the second predetermined potential, the lower bias current for operating of the second amplification stage in a linear mode of operation and a higher bias current for operating of the second amplification stage in a saturation mode of operation

Fig. 1b

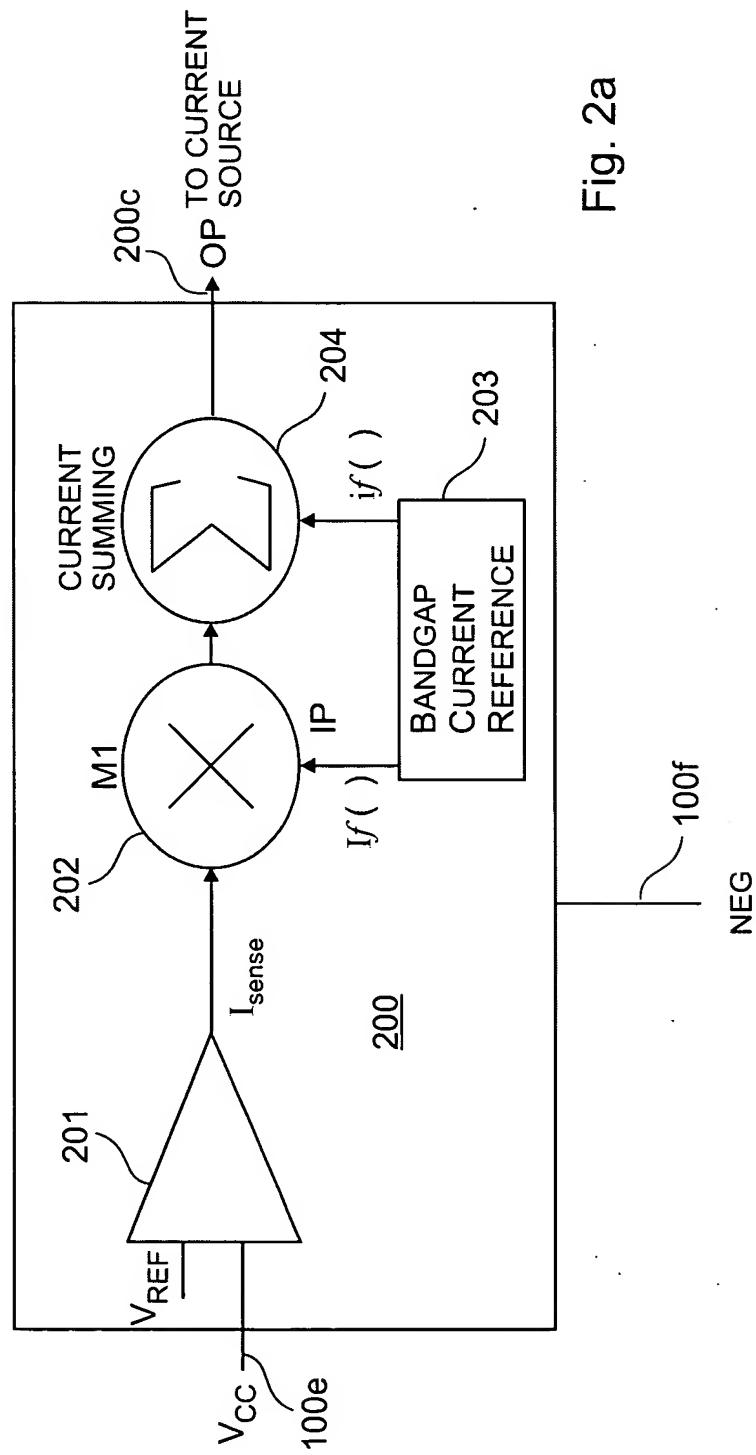
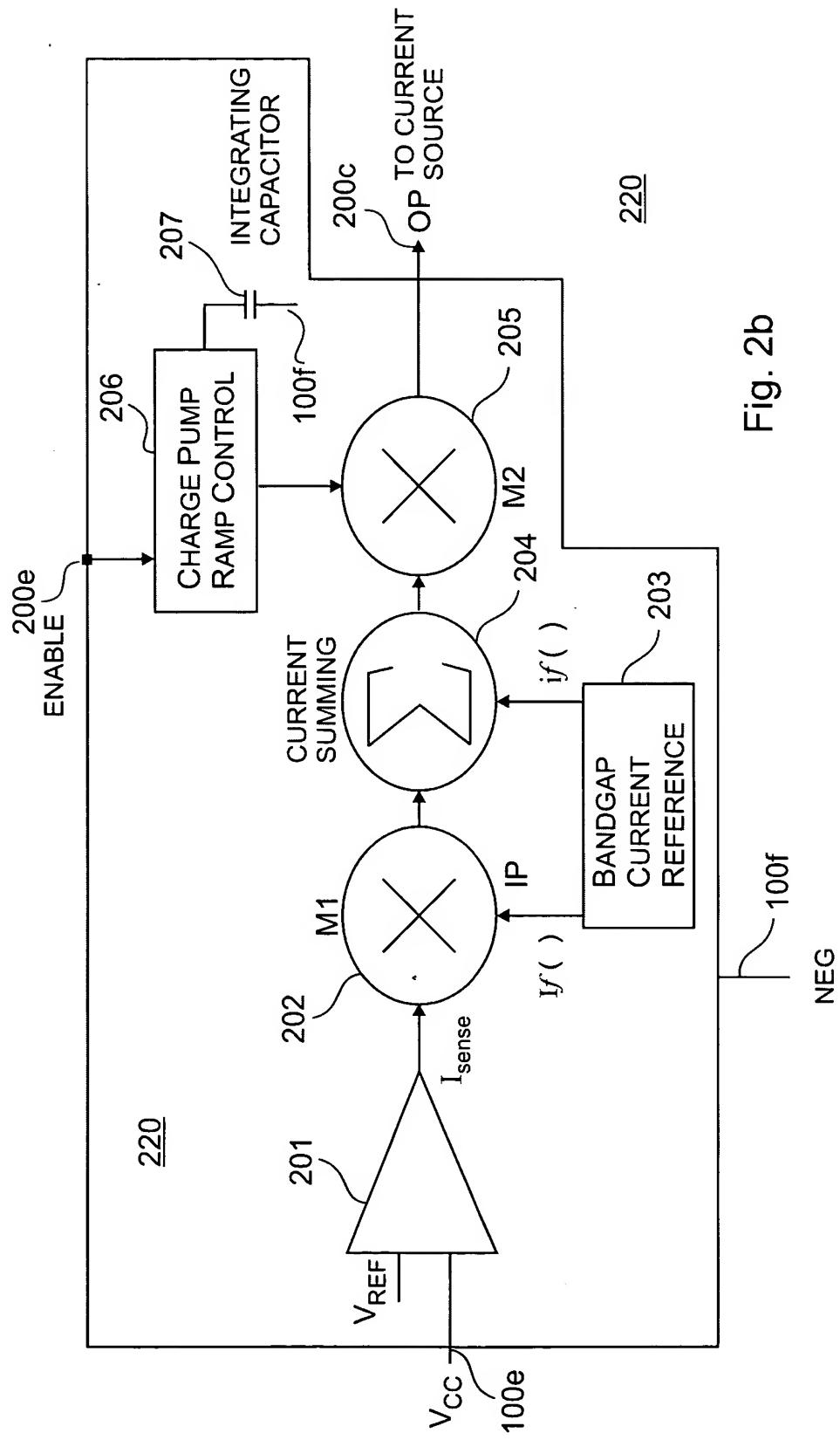


Fig. 2a



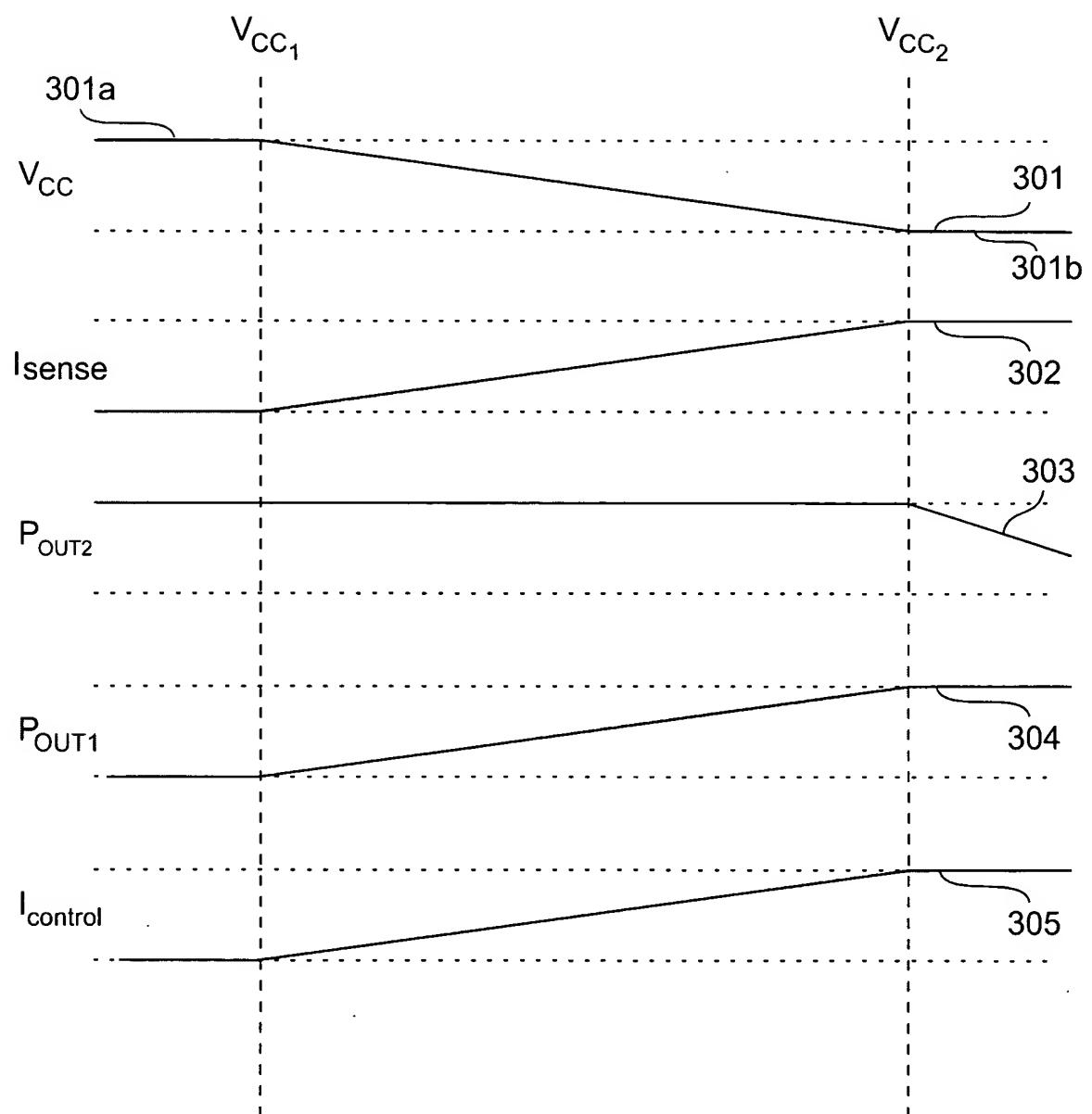


Fig. 3a

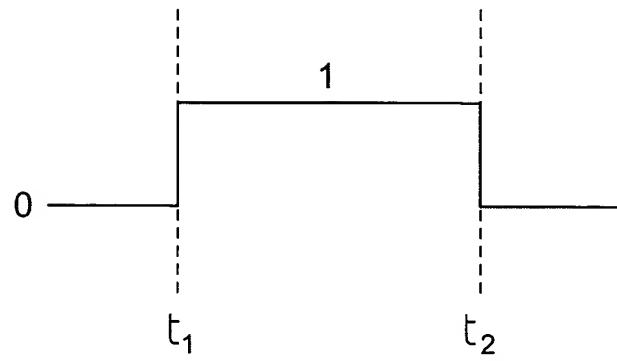


Fig. 3b

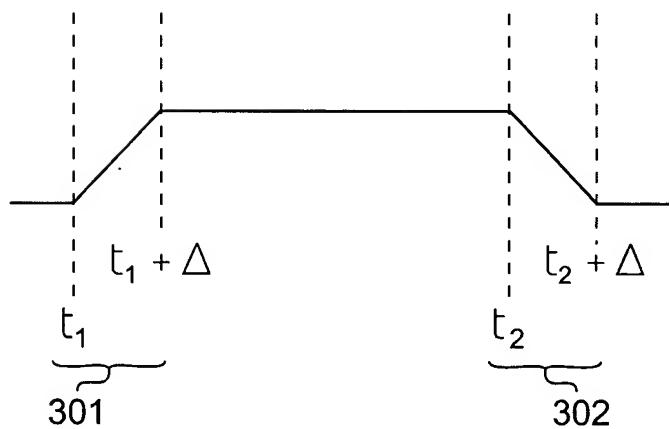


Fig. 3c

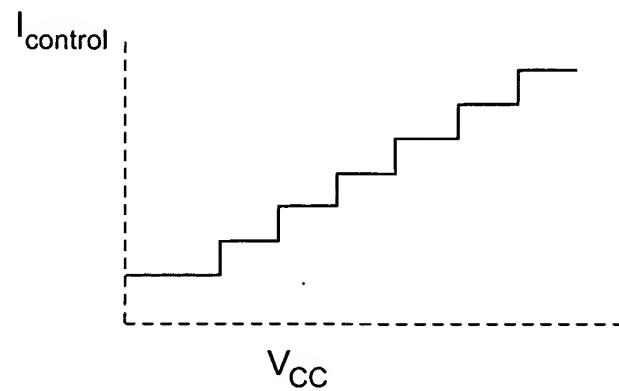


Fig. 3d

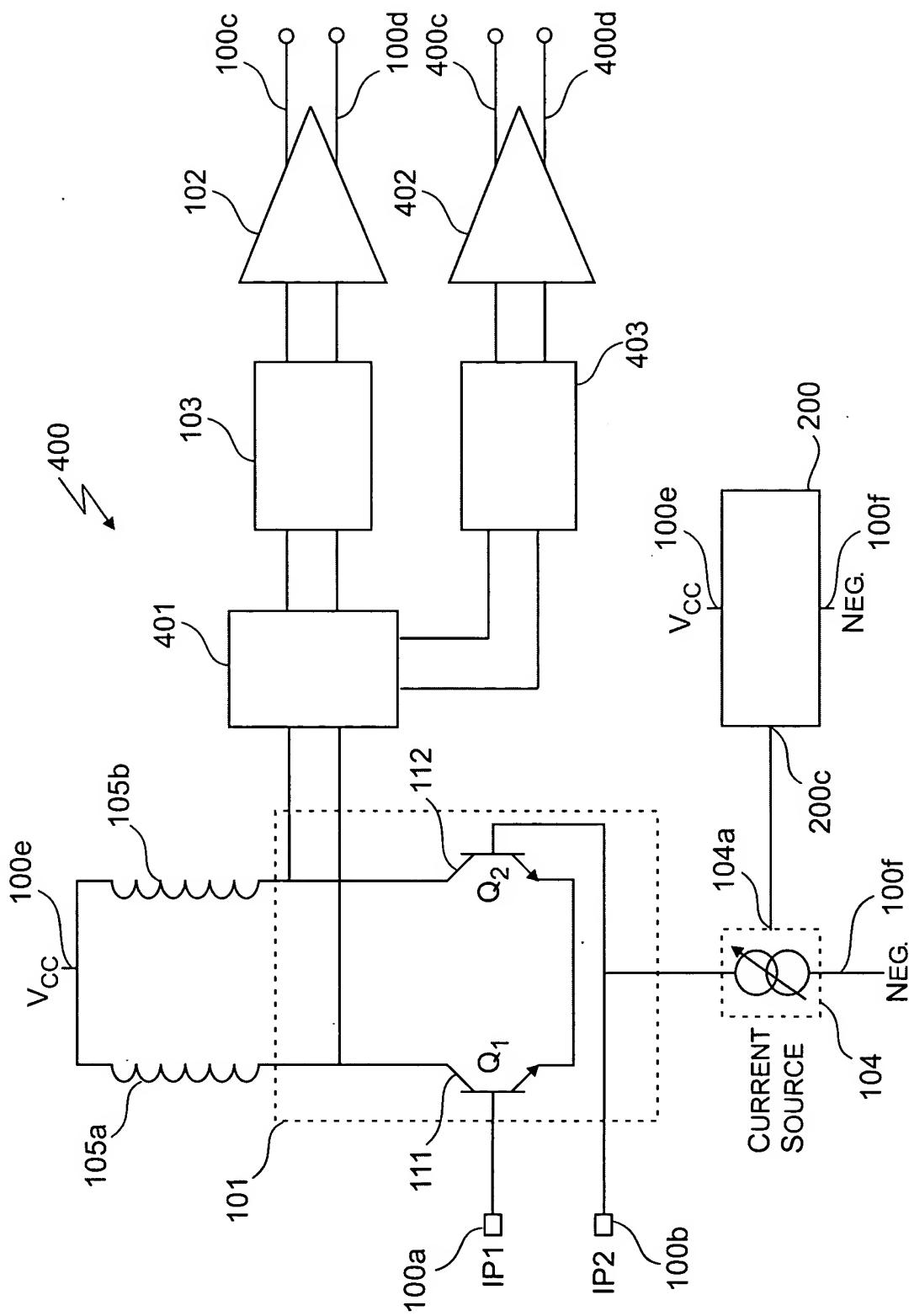


Fig. 4